10/021,050

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                                                       ENTRY    SESSION
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*** YOU HAVE NEW MAIL ***

=> s (phosphor sheet? or layer?)
   4 FILES SEARCHED...
L1     4035686 (PHOSPHOR SHEET? OR LAYER?)

=> s l1 and radiation
L2      264546 L1 AND RADIATION

=> s l2 and plurality
L3       83425 L2 AND PLURALITY

=> s l3 and support
L4       38234 L3 AND SUPPORT

=> s l4 and photoelectrically
L5         454 L4 AND PHOTOELECTRICALLY

=> s l5 and biochemical
L6          47 L5 AND BIOCHEMICAL

=> dup rem l6
PROCESSING COMPLETED FOR L6
L7           47 DUP REM L6 (0 DUPLICATES REMOVED)

=> s l7 and moving
L8          29 L7 AND MOVING

=> s l8 and digital
L9          29 L8 AND DIGITAL

=> s l9 and stimulated emission
L10         27 L9 AND STIMULATED EMISSION
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=> d l10 bib abs 1-27

L10 ANSWER 1 OF 27 USPATFULL on STN
AN 2004:38032 USPATFULL
TI **Biochemical** analysis unit
IN Ogura, Nobuhiko, Kanagawa, JAPAN
PA FUJI PHOTO FILM CO., LTD. (non-U.S. corporation)
PI US 2004028568 A1 20040212
AI US 2003-347787 A1 20030122 (10)
PRAI JP 2002-20348 20020129
DT Utility
FS APPLICATION
LREP SUGHRUE MION, PLLC, 2100 PENNSYLVANIA AVENUE, N.W., WASHINGTON, DC, 20037
CLMN Number of Claims: 21
ECL Exemplary Claim: 1
DRWN 17 Drawing Page(s)
LN.CNT 3301
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A **biochemical** analysis unit includes a plate-like member made of a material capable of attenuating light energy and formed with a **plurality** of through-holes, a **plurality** of absorptive regions formed by charging an absorptive membrane formed of an absorptive material at positions corresponding to those of the **plurality** of through-holes and light attenuating regions having a property of attenuating light energy and formed at regions in the absorptive membrane between the neighboring absorptive regions so as to be adjacent to the plate-like member in a thickness direction of the absorptive membrane. According to the **biochemical** analysis unit, it is possible to produce **biochemical** analysis data having an excellent quantitative characteristic even in the case of forming a number of the absorptive regions labeled with a labeling substance which generates chemiluminescence emission when it contacts a chemiluminescent substrate or a fluorescent substance in a **biochemical** analysis unit.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 2 OF 27 USPATFULL on STN
AN 2003:213904 USPATFULL
TI Method for conducting receptor-ligand association reaction
IN Nakajima, Kenji, Kanagawa, JAPAN
PA FUJI PHOTO FILM CO., LTD. (non-U.S. corporation)
PI US 2003148543 A1 20030807
AI US 2003-349114 A1 20030123 (10)
PRAI JP 2002-26816 20020204
DT Utility
FS APPLICATION
LREP SUGHRUE MION, PLLC, 2100 PENNSYLVANIA AVENUE, N.W., WASHINGTON, DC, 20037
CLMN Number of Claims: 26
ECL Exemplary Claim: 1
DRWN 14 Drawing Page(s)
LN.CNT 3531
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A method for conducting a receptor-ligand association reaction includes the steps of pressurizing a reaction solution containing a ligand or receptor labeled with a labeling substance such as a radioactive labeling substance, a fluorescent substance or a labeling substance which generates chemiluminescence emission when it contacts a chemiluminescent substrate and forcibly feeding the reaction solution so as to cut through a **plurality** of absorptive regions formed in a **biochemical** analysis unit to be spaced from each other and containing receptors or ligands, thereby selectively associating the

ligand or receptor contained in the reaction solution with the receptors or ligands contained in the absorptive regions of the **biochemical** analysis unit. According to this method, it is possible to efficiently associate a ligand or receptor with receptors or ligands fixed in the absorptive regions of the **biochemical** analysis unit and produce **biochemical** analysis data having an excellent quantitative characteristic with good repeatability.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 3 OF 27 USPATFULL on STN
AN 2003:213765 USPATFULL
TI Method for conducting receptor-ligand association reaction and reactor used therefor
IN Nakajima, Kenji, Kanagawa, JAPAN
PA FUJI PHOTO FILM CO., LTD. (non-U.S. corporation)
PI US 2003148403 A1 20030807
AI US 2003-351391 A1 20030127 (10)
PRAI JP 2002-25977 20020201
DT Utility
FS APPLICATION
LREP SUGHRUE MION, PLLC, 2100 PENNSYLVANIA AVENUE, N.W., WASHINGTON, DC, 20037
CLMN Number of Claims: 42
ECL Exemplary Claim: 1
DRWN 14 Drawing Page(s)
LN.CNT 4118
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A method for conducting a receptor-ligand association reaction includes the steps of holding a **biochemical** analysis unit formed with a **plurality** of absorptive regions spaced apart from each other and containing receptors or ligands in a reaction vessel covered by a jacket whose temperature can be controlled, and forcibly feeding a reaction solution containing a ligand or receptor labeled with a labeling substance so as to cut through the **plurality** of absorptive regions formed in the **biochemical** analysis unit, thereby selectively associating the ligand or receptor contained in the reaction solution with the receptors or ligands contained in the **plurality** of absorptive regions of the **biochemical** analysis unit. According to this method, it is possible to efficiently associate a ligand or receptor with receptors or ligands fixed in the absorptive regions of the **biochemical** analysis unit and produce **biochemical** analysis data having an excellent quantitative characteristic with good repeatability.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 4 OF 27 USPATFULL on STN
AN 2003:213764 USPATFULL
TI Method for conducting receptor-ligand association reaction and reactor used therefor
IN Amano, Yoshikazu, Kanagawa, JAPAN
Tsuzuki, Hirohiko, Kanagawa, JAPAN
PA FUJI PHOTO FILM CO., LTD. (non-U.S. corporation)
PI US 2003148402 A1 20030807
AI US 2003-351379 A1 20030127 (10)
PRAI JP 2002-25968 20020201
DT Utility
FS APPLICATION
LREP SUGHRUE MION, PLLC, 2100 PENNSYLVANIA AVENUE, N.W., WASHINGTON, DC, 20037
CLMN Number of Claims: 27
ECL Exemplary Claim: 1
DRWN 14 Drawing Page(s)

LN.CNT 3583
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A method for conducting a receptor-ligand association reaction includes the steps of forcibly feeding a reaction solution containing a ligand labeled with a labeling substance from one side of a **biochemical** analysis unit formed with a **plurality** of absorptive regions spaced apart from each other and containing receptors toward the other side thereof so as to cut through the absorptive regions of the **biochemical** analysis unit and forcibly feeding the reaction solution from the other side of the **biochemical** analysis unit toward the one side thereof via at least one check valve, thereby selectively associating the ligand contained in the reaction solution with the receptors contained in the absorptive regions. According to this method, it is possible to efficiently associate a ligand with receptors fixed in the absorptive regions of the **biochemical** analysis unit and produce **biochemical** analysis data having an excellent quantitative characteristic with good repeatability.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 5 OF 27 USPATFULL on STN
AN 2003:207282 USPATFULL
TI Method for conducting receptor-ligand association reaction and reactor used therefor
IN Ogura, Nobuhiko, Kanagawa, JAPAN
PA FUJI PHOTO FILM CO., LTD. (non-U.S. corporation)
PI US 2003143640 A1 20030731
AI US 2003-351358 A1 20030127 (10)
PRAI JP 2002-22816 20020131
DT Utility
FS APPLICATION
LREP SUGHRUE MION, PLLC, 2100 PENNSYLVANIA AVENUE, N.W., WASHINGTON, DC, 20037
CLMN Number of Claims: 52
ECL Exemplary Claim: 1
DRWN 22 Drawing Page(s)
LN.CNT 5996
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A method for conducting a receptor-ligand association reaction includes the steps of dipping a **biochemical** analysis unit including a substrate formed with a **plurality** of absorptive regions which contain receptors or ligands and are formed to be spaced apart from each other in a reaction solution containing a ligand or receptor labeled with a labeling substance, simultaneously inserting a **plurality** of electrodes into all of the **plurality** of absorptive regions containing the receptors or ligands and sequentially applying a positive voltage to one of the electrodes at a time while other electrodes are grounded, thereby conducting a receptor-ligand association reaction. According to the this method, it is possible to efficiently react a ligand or receptor with receptors or ligands fixed in the **plurality** of absorptive regions of the **biochemical** analysis unit and produce **biochemical** analysis data having an excellent quantitative characteristic with good repeatability.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 6 OF 27 USPATFULL on STN
AN 2003:64881 USPATFULL
TI Cartridge for **biochemical** analysis unit and method for recording **biochemical** analysis data in **biochemical** analysis unit
IN Muraishi, Katsuaki, Kanagawa, JAPAN
PA FUJI PHOTO FILM CO., LTD. (non-U.S. corporation)
PI US 2003045002 A1 20030306

AI US 2002-224376 A1 20020821 (10)
PRAI JP 2001-257464 20010828
DT Utility
FS APPLICATION
LREP SUGHRUE MION, PLLC, 2100 PENNSYLVANIA AVENUE, N.W., WASHINGTON, DC, 20037
CLMN Number of Claims: 51
ECL Exemplary Claim: 1
DRWN 19 Drawing Page(s)
LN.CNT 5481
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A cartridge for a **biochemical** analysis unit is adapted for accommodating a **biochemical** analysis unit and formed with at least one fluid passage for leading a solution to only a **plurality** of absorptive regions formed in the **biochemical** analysis unit to be spaced apart from each other. According to thus constituted cartridge, it is possible to forcibly and uniformly feed a reaction solution containing a ligand or a receptor labeled with a labeling substance to the **plurality** of absorptive regions of the **biochemical** analysis unit, thereby associating the ligand or the receptor contained in the reaction solution with a receptor or a ligand fixed in the absorptive regions of the **biochemical** analysis unit. Therefore, it is possible to extremely efficiently associate the ligand or the receptor contained in the reaction solution with the receptor or the ligand fixed in the absorptive regions of the **biochemical** analysis unit.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 7 OF 27 USPATFULL on STN
AN 2003:30299 USPATFULL
TI Method for conducting a receptor-ligand association reaction and apparatus used therefor
IN Ogura, Nobuhiko, Kanagawa, JAPAN
Muraishi, Katsuaki, Kanagawa, JAPAN
Etoh, Masahiro, Kanagawa, JAPAN
PA FUJI PHOTO FILM CO., LTD. (non-U.S. corporation)
PI US 2003022246 A1 20030130
AI US 2002-206011 A1 20020729 (10)
PRAI JP 2001-229058 20010730
JP 2001-267154 20010904
DT Utility
FS APPLICATION
LREP SUGHRUE MION, PLLC, 2100 PENNSYLVANIA AVENUE, N.W., WASHINGTON, DC, 20037
CLMN Number of Claims: 70
ECL Exemplary Claim: 1
DRWN 20 Drawing Page(s)
LN.CNT 6359
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A method for conducting a receptor-ligand association reaction includes the step of feeding a reaction solution containing a ligand or a receptor labeled with a labeling substance to a **plurality** of absorptive regions which are formed in a **biochemical** analysis unit to be spaced from each other and in which receptors or ligands are fixed so as to cut through the **plurality** of absorptive regions, thereby selectively associating the ligand or the receptor contained in the reaction solution with the receptors or the ligands fixed in the **plurality** of absorptive regions of the **biochemical** analysis unit. According to the present invention, it is possible to efficiently associate a ligand or a receptor with receptors or ligands fixed in a **biochemical** analysis unit and produce **biochemical** analysis data having an excellent high quantitative characteristic with excellent repeatability.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 8 OF 27 USPATFULL on STN
AN 2003:10203 USPATFULL
TI **Biochemical** analysis unit
IN Tsuzuki, Hirohiko, Kanagawa, JAPAN
PA FUJI PHOTO FILM CO., LTD. (non-U.S. corporation)
PI US 2003007895 A1 20030109
AI US 2002-173026 A1 20020618 (10)
PRAI JP 2001-184583 20010619
DT Utility
FS APPLICATION
LREP SUGHRUE MION, PLLC, 2100 Pennsylvania Avenue, NW, Washington, DC, 20037-3213
CLMN Number of Claims: 47
ECL Exemplary Claim: 1
DRWN 19 Drawing Page(s)
LN.CNT 3643
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A **biochemical** analysis unit includes a substrate made of a material capable of attenuating **radiation** energy and light energy and formed with a **plurality** of holes spaced apart from each other, a **plurality** of absorptive **layers** being formed on inner surfaces of the holes. According to the thus constituted **biochemical** analysis unit, it is possible to prevent noise caused by the scattering of electron beams (β rays) released from a radioactive labeling substance from being generated in **biochemical** analysis data even in the case of forming spot-like regions selectively containing a radioactive labeling substance in the **biochemical** analysis unit, superposing the **biochemical** analysis unit and a stimulable phosphor **layer**, exposing the stimulable phosphor **layer** to the radioactive labeling substance, irradiating the stimulable phosphor **layer** with a stimulating ray to excite the stimulable phosphor, and **photoelectrically** detecting the **stimulated** **emission** released from the stimulable phosphor **layer**.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 9 OF 27 USPATFULL on STN
AN 2003:3565 USPATFULL
TI Biochemical analysis kit and method for exposing stimulable phosphor sheet
IN Ogura, Nobuhiko, Kanagawa, JAPAN
PA FUJI PHOTO FILM CO., LTD. (non-U.S. corporation)
PI US 2003003600 A1 20030102
AI US 2002-175077 A1 20020620 (10)
PRAI JP 2001-201196 20010702
DT Utility
FS APPLICATION
LREP SUGHRUE MION, PLLC, 2100 PENNSYLVANIA AVENUE, N.W., WASHINGTON, DC, 20037
CLMN Number of Claims: 81
ECL Exemplary Claim: 1
DRWN 27 Drawing Page(s)
LN.CNT 7170
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A biochemical analysis kit includes a biochemical analysis unit including a substrate formed with a plurality of absorptive regions to be spaced apart from each other and a stimulable phosphor sheet including a support formed with a plurality of stimulable phosphor layer regions to be spaced apart from each other in substantially the same pattern as that of the plurality of absorptive regions formed in the

substrate of the biochemical analysis unit. According to the thus constituted biochemical analysis kit, it is possible to produce biochemical analysis data having excellent quantitative characteristics with high resolution by selectively labeling the absorptive regions with a radioactive labeling substance or a labeling substance which generates chemiluminescence emission when it contacts a chemiluminescent substrate, superposing a stimulable phosphor sheet formed with stimulable phosphor layer regions on the biochemical analysis unit, exposing the stimulable phosphor layer regions to the radioactive labeling substance contained in the absorptive regions or chemiluminescence emission released from the absorptive regions to record radiation data or chemiluminescence data in the stimulable phosphor layer regions, stimulating the stimulable phosphor layer regions with a stimulating ray and detecting stimulated emission released from the stimulable phosphor layer regions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 10 OF 27 USPATFULL on STN
AN 2003:3559 USPATFULL
TI Method for producing **biochemical** analysis data and scanner used therefor
IN Ogura, Nobuhiko, Kanagawa, JAPAN
PA FUJI PHOTO FILM CO. LTD. (non-U.S. corporation)
PI US 2003003594 A1 20030102
AI US 2002-173840 A1 20020619 (10)
PRAI JP 2001-196065 20010628
DT Utility
FS APPLICATION
LREP SUGHRUE MION, PLLC, 2100 PENNSYLVANIA AVENUE, N.W., WASHINGTON, DC, 20037
CLMN Number of Claims: 61
ECL Exemplary Claim: 1
DRWN 16 Drawing Page(s)
LN.CNT 6036
AB A method for producing **biochemical** analysis data by **photoelectrically** detecting light released from a **plurality** of light releasable regions two-dimensionally formed so as to be spaced apart from each other in a sample placed on a sample stage, the method for producing **biochemical** analysis data including the steps of intermittently **moving** a light guide member for leading light released from the **plurality** of light releasable regions to a light detector and the sample stage relative to each other in a main scanning direction and a sub-scanning direction perpendicular to the main scanning direction, leading light released from the **plurality** of light releasable regions two-dimensionally formed so as to be spaced apart from each other in the sample to a light detector through the light guide member, and **photoelectrically** detecting light by the light detector. According this method, it is possible to produce **biochemical** analysis data having high quantitative characteristics by detecting light emitted from a **plurality** of light releasable regions even in the case where the **plurality** of light releasable regions labeled with a labeling substance such as a radioactive labeling substance are formed in a **biochemical** analysis unit at a high density.

L10 ANSWER 11 OF 27 USPATFULL on STN
AN 2003:3458 USPATFULL
TI **Biochemical** analysis unit and **biochemical** analysis kit
IN Kohda, Katsuhiro, Kanagawa, JAPAN
PA FUJI PHOTO FILM CO., LTD. (non-U.S. corporation)

PI US 2003003493 A1 20030102
AI US 2002-174954 A1 20020620 (10)
PRAI JP 2001-201182 20010702
DT Utility
FS APPLICATION
LREP SUGHRUE MION, PLLC, 2100 PENNSYLVANIA AVENUE, N.W., WASHINGTON, DC, 20037
CLMN Number of Claims: 56
ECL Exemplary Claim: 1
DRWN 15 Drawing Page(s)
LN.CNT 4366
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A **biochemical** analysis unit includes a substrate formed with a **plurality** of absorptive regions to be spaced apart from each other and capable of attenuating **radiation** energy and light energy, the absorptive regions being formed so that an area Smi of each absorptive region and an average area Sma of the **plurality** of absorptive regions meet a requirement that Smi is equal to or smaller than 0.5+Sma and is equal to or larger than 2+Sma. According to this **biochemical** analysis unit, it is possible to produce **biochemical** analysis data having excellent quantitative characteristics with high resolution by selectively labeling the absorptive regions with a radioactive labeling substance or a labeling substance which generates chemiluminescence emission when it contacts a chemiluminescent substrate, superposing a stimulable **phosphor sheet** formed with a stimulable phosphor **layer** on the **biochemical** analysis unit, exposing the stimulable phosphor **layer** to the radioactive labeling substance contained in the absorptive regions or chemiluminescence emission released from the absorptive regions to record **radiation** data or chemiluminescence data in the stimulable phosphor **layer**, stimulating the stimulable phosphor **layer** with a stimulating ray and detecting **stimulated emission** released from the stimulable phosphor **layer**.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 12 OF 27 USPATFULL on STN
AN 2003:1109 USPATFULL
TI Method for producing **biochemical** analysis data and apparatus used therefor
IN Shimizu, Hitoshi, Kanagawa, JAPAN
Ogura, Nobuhiko, Kanagawa, JAPAN
PA FUJI PHOTO FILM CO., LTD.
PI US 2003001122 A1 20030102
AI US 2002-175425 A1 20020620 (10)
PRAI JP 2001-196199 20010628
JP 2001-229065 20010730
JP 2002-23968 20020131
DT Utility
FS APPLICATION
LREP SUGHRUE MION, PLLC, 2100 PENNSYLVANIA AVENUE, N.W., WASHINGTON, DC, 20037
CLMN Number of Claims: 75
ECL Exemplary Claim: 1
DRWN 28 Drawing Page(s)
LN.CNT 8030
AB A method for producing **biochemical** analysis data includes the steps of collecting light selectively released from a **plurality** of light releasable regions two-dimensionally formed to be spaced apart from each other in a sample placed on a sample stage by a **plurality** of light guide member each of which is disposed to face one of the **plurality** of light releasable regions, leading the thus collected light to a light detector and

photoelectrically detecting the light by the light detector. According to this method, it is possible to produce **biochemical** analysis data having high quantitative characteristics by **photoelectrically** detecting light emitted from a **plurality** of light releasable regions even in the case where the **plurality** of light releasable regions labeled with a labeling substance are formed in a sample at a high density.

L10 ANSWER 13 OF 27 USPATFULL on STN
AN 2002:344002 USPATFULL
TI **Biochemical** analysis unit and method for manufacturing the same
IN Tsuzuki, Hirohiko, Kanagawa, JAPAN
PA FUJI PHOTO FILM CO., LTD. (non-U.S. corporation)
PI US 2002197729 A1 20021226
AI US 2002-166291 A1 20020611 (10)
PRAI JP 2001-187853 20010621
DT Utility
FS APPLICATION
LREP SUGHRUE MION, PLLC, 2100 PENNSYLVANIA AVENUE, N.W., WASHINGTON, DC, 20037
CLMN Number of Claims: 37
ECL Exemplary Claim: 1
DRWN 18 Drawing Page(s)
LN.CNT 3835
AB A **biochemical** analysis unit includes a **plurality** of absorptive regions two-dimensionally formed so as to be spaced apart from each other by weaving a **plurality** of light shielding strips made of a material capable of attenuating **radiation** energy and a **plurality** of absorptive strips made of an absorptive material so that the light shielding strip is present between neighboring absorptive regions. According to the thus constituted **biochemical** analysis unit, it is possible to prevent noise caused by the scattering of electron beams (β rays) released from a radioactive labeling substance from being generated in **biochemical** analysis data even in the case of forming in the **biochemical** analysis unit at a high density a **plurality** of spot-like regions selectively labeled with a radioactive labeling substance, thereby preparing the **biochemical** analysis unit, bringing the **biochemical** analysis unit into close contact with a stimulable phosphor **layer** to expose the stimulable phosphor **layer** to the radioactive labeling substance, irradiating the stimulable phosphor **layer** with a stimulating ray to excite the stimulable phosphor, **photoelectrically** detecting the **stimulated emission** released from the stimulable phosphor **layer**, and producing **biochemical** analysis data.

L10 ANSWER 14 OF 27 USPATFULL on STN
AN 2002:343842 USPATFULL
TI **Biochemical** analysis unit and method of producing thereof
IN Neriishi, Keiko, Kanagawa, JAPAN
Hosoi, Yuichi, Kanagawa, JAPAN
Kohda, Katsuhiro, Kanagawa, JAPAN
Eto, Masahiro, Tokyo, JAPAN
Kato, Akifumi, Kanagawa, JAPAN
Nakajima, Kenji, Kanagawa, JAPAN
PA Fuji Photo Film Co., Ltd. (non-U.S. corporation)
PI US 2002197568 A1 20021226
AI US 2002-147826 A1 20020520 (10)
PRAI JP 2001-150414 20010521
JP 2001-298368 20010927

JP 2001-192895 20010626
JP 2001-192896 20010626
JP 2001-186287 20010620
DT Utility
FS APPLICATION
LREP SUGHRUE MION, PLLC, 2100 Pennsylvania Avenue, N.W., Washington, DC, 20037
CLMN Number of Claims: 94
ECL Exemplary Claim: 1
DRWN 31 Drawing Page(s)
LN.CNT 1961
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The **biochemical** analysis unit has a base plate and absorptive regions. The absorptive regions are surrounded by the base plate formed of materials which shield a radioactive ray and a light. In the absorptive regions are applied and absorbed specific binding substances to be bound with substances derived from a living organism that are labeled with labeling substances for generating the radioactive ray or the light. The base plate prevents the specific binding substances from penetrating in the other absorptive regions. When an analysis of data of the radioactive ray and the light is carried out, an image of the radioactive ray and the light is generated without noises.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 15 OF 27 USPATFULL on STN
AN 2002:341868 USPATFULL
TI Stimulable **phosphor sheet** and method for manufacturing the same
IN Neriishi, Keiko, Kanagawa, JAPAN
Kohda, Katsuhiro, Kanagawa, JAPAN
Hosoi, Yuichi, Kanagawa, JAPAN
PA FUJI PHOTO FILM CO., LTD. (non-U.S. corporation)
PI US 2002195573 A1 20021226
AI US 2002-172995 A1 20020618 (10)
PRAI JP 2001-186265 20010620
DT Utility
FS APPLICATION
LREP SUGHRUE MION, PLLC, 2100 Pennsylvania Avenue, NW, Washington, DC, 20037-3213
CLMN Number of Claims: 54
ECL Exemplary Claim: 1
DRWN 18 Drawing Page(s)
LN.CNT 3169
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A stimulable **phosphor sheet** is formed with a **plurality** of stimulable phosphor **layer** regions formed by pressing a stimulable phosphor membrane containing stimulable phosphor and a binder into a **plurality** of through-holes formed in a plate-like member to form the **plurality** of stimulable phosphor **layer** regions at positions corresponding to those of the **plurality** of through-holes of the plate-like member. According to the thus constituted stimulabple **phosphor sheet**, it is possible to read **radiation** data or chemiluminescence data and produce **biochemical** analysis data having excellent quantitative characteristics with high resolution even in the case of forming at a high density in a carrier a **plurality** of spot-like regions selectively labeled with a radioactive labeling substance, thereby recording **radiation** data therein or in the case of forming at a high density in a carrier a **plurality** of spot-like regions selectively labeled with a labeling substance which generates chemiluminescence emission when it contacts a chemiluminescent substrate, thereby recording chemiluminescence data therein.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 16 OF 27 USPATFULL on STN
AN 2002:294774 USPATFULL
TI Stimulable **phosphor sheet** and method for reading **biochemical** analysis data recorded in stimulable **phosphor sheet**
IN Neriishi, Keiko, Kanagawa, JAPAN
PA FUJI PHOTO FILM CO., LTD. (non-U.S. corporation)
PI US 2002164817 A1 20021107
AI US 2002-117223 A1 20020408 (10)
PRAI JP 2001-110261 20010409
DT Utility
FS APPLICATION
LREP SUGHRUE MION, PLLC, 2100 PENNSYLVANIA AVENUE, N.W., WASHINGTON, DC, 20037
CLMN Number of Claims: 48
ECL Exemplary Claim: 1
DRWN 11 Drawing Page(s)
LN.CNT 2200
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A stimulable **phosphor sheet** includes a **support** formed with a **plurality** of stimulable phosphor **layer** regions spaced apart from each other and a **plurality** of additional stimulable phosphor **layer** regions spaced apart from the **plurality** of stimulable phosphor **layer** regions. According to the thus constituted stimulable **phosphor sheet**, it is possible to produce **biochemical** analysis data having excellent quantitative characteristics with high resolution even in the case of forming at a high density on the surface of a carrier a **plurality** of spot-like regions containing specific binding substances which can specifically bind with a substance derived from a living organism and whose sequence, base length, composition and the like are known, and specifically binding a substance derived from a living organism labeled with a radioactive labeling substance with specific binding substances contained in the **plurality** of spot-like regions, thereby selectively labeling the **plurality** of spot-like regions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 17 OF 27 USPATFULL on STN
AN 2002:292960 USPATFULL
TI **Biochemical** analysis data producing method, **biochemical** analysis data producing apparatus and stimulable **phosphor sheet** used therefor
IN Shimizu, Hitoshi, Kanagawa, JAPAN
Ogura, Nobuhiko, Kanagawa, JAPAN
PA FUJI PHOTO FILM CO., LTD. (non-U.S. corporation)
PI US 2002162980 A1 20021107
US 6781143 B2 20040824
AI US 2002-116701 A1 20020405 (10)
PRAI JP 2001-108968 20010406
JP 2001-191253 20010625
DT Utility
FS APPLICATION
LREP SUGHRUE MION, PLLC, 2100 Pennsylvania Avenue, NW, Washington, DC, 20037-3213
CLMN Number of Claims: 58
ECL Exemplary Claim: 1
DRWN 27 Drawing Page(s)
LN.CNT 5274
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A **biochemical** analysis data producing method includes the steps of irradiating a stimulable **phosphor sheet** including a **support** formed with a **plurality** of stimulable phosphor **layer** regions spaced apart from each other with light emitted from a standard light source or **radiation** emitted from a standard **radiation** source to expose the **plurality** of stimulable phosphor **layer** regions, irradiating the **plurality** of stimulable phosphor **layer** regions with a stimulating ray to excite stimulable phosphor contained in the **plurality** of stimulable phosphor **layer** regions, **photoelectrically** detecting **stimulated** **emission** released from the **plurality** of stimulable phosphor **layer** regions to produce correction data for the individual stimulable phosphor **layer** regions, superposing the stimulable **phosphor sheet** on a **biochemical** analysis unit including a **plurality** of spot-like regions formed in the same pattern as that of the **plurality** of stimulable phosphor **layer** regions of the stimulable **phosphor sheet** and selectively containing a radioactive labeling substance, exposing the **plurality** of stimulable phosphor **layer** regions to the radioactive labeling substance selectively contained in the **plurality** of spot-like regions, scanning the **plurality** of stimulable phosphor **layer** regions with a stimulating ray to excite stimulable phosphor, **photoelectrically** detecting **stimulated** **emission** released from the **plurality** of stimulable phosphor **layer** regions to produce **biochemical** analysis data, and correcting the thus produced **biochemical** analysis data using the correction data for the individual stimulable phosphor **layer** regions. According to this **biochemical** analysis data producing method, it is possible to produce **biochemical** analysis data having excellent quantitative characteristics with high resolution even in the case of forming at a high density in the **biochemical** analysis unit spot-like regions that are selectively labeled by specifically binding a substance derived from a living organism labeled with a radioactive labeling substance with specific binding substances.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 18 OF 27 USPATFULL on STN
AN 2002:280153 USPATFULL
TI **Biochemical** analysis unit and **biochemical** analyzing method using the same
IN Tsuchiya, Tohru, Kanagawa, JAPAN
PA FUJI PHOTO FILM CO., LTD. (non-U.S. corporation)
PI US 2002155589 A1 20021024
AI US 2002-112080 A1 20020401 (10)
PRAI JP 2001-101028 20010330
DT Utility
FS APPLICATION
LREP SUGHRUE MION, PLLC, 2100 Pennsylvania Avenue, NW, Washington, DC, 20037-3213
CLMN Number of Claims: 64
ECL Exemplary Claim: 1
DRWN 15 Drawing Page(s)
LN.CNT 3730
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A **biochemical** analysis unit includes a **plurality** of absorptive regions formed spaced apart from each other by covering a surface of an absorptive substrate made of an absorptive material with a material capable of attenuating **radiation** energy and/or light energy. According to this **biochemical** analysis unit, it is possible to prevent noise caused by the scattering of electron beams

released from a radioactive labeling substance from being generated in **biochemical** analysis data even in the case of forming spots of specific binding substances on the surface of a carrier at high density, specifically binding the spot-like specific binding substance with a substance derived from a living organism and labeled with a radioactive substance to selectively label the spot-like specific binding substances with a radioactive substance, thereby obtaining a **biochemical** analysis unit, superposing the thus obtained **biochemical** analysis unit and a stimulable phosphor **layer**, exposing the stimulable phosphor **layer** to the radioactive labeling substance, irradiating the stimulable phosphor **layer** with a stimulating ray to excite the stimulable phosphor, **photoelectrically** detecting the **stimulated emission** released from the stimulable phosphor **layer** to produce **biochemical** analysis data, and analyzing the substance derived from a living organism.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 19 OF 27 USPATFULL on STN
AN 2002:272823 USPATFULL
TI **Biochemical** analysis unit and method for exposing stimulable **phosphor sheet** using the same
IN Hosoi, Yuichi, Kanagawa, JAPAN
PA FUJI PHOTO FILM CO., LTD. (non-U.S. corporation)
PI US 2002150944 A1 20021017
AI US 2002-115964 A1 20020405 (10)
PRAI JP 2001-108974 20010406
DT Utility
FS APPLICATION
LREP SUGHRUE MION, PLLC, 2100 PENNSYLVANIA AVENUE, N.W., WASHINGTON, DC, 20037
CLMN Number of Claims: 70
ECL Exemplary Claim: 1
DRWN 11 Drawing Page(s)
LN.CNT 2279
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A **biochemical** analysis unit includes a **plurality** of absorptive regions formed of absorptive material and spaced apart from each other and a **plurality** of isolating regions formed of a material capable of attenuating **radiation** energy and/or light energy for isolating the **plurality** of absorptive regions, the **plurality** of isolating regions being formed so that surfaces thereof lie outward of surfaces of the individual absorptive regions. According to the thus constituted **biochemical** analysis unit, it is possible to effectively prevent electron beams released from a radioactive labeling substance or chemiluminescent emission released from the **plurality** of absorptive regions from being scattered and to produce **biochemical** analysis data free from noise by scanning a stimulable phosphor **layer** exposed to electron beams or chemiluminescent emission released from the **plurality** of absorptive regions with a stimulating ray and **photoelectrically** detecting **stimulated emission** released from the stimulable phosphor **layer**.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 20 OF 27 USPATFULL on STN
AN 2002:219511 USPATFULL
TI Scanner having confocal optical system, method for producing focus position data of confocal optical system of scanner having confocal optical system and method for producing **digital** data of scanner having confocal optical system
IN Hakamata, Masashi, Kanagawa, JAPAN

Kobayashi, Takashi, Kanagawa, JAPAN
PA FUJI PHOTO FILM CO., LTD. (non-U.S. corporation)
PI US 2002117632 A1 20020829
US 6630680 B2 20031007
AI US 2001-20137 A1 20011218 (10)
PRAI JP 2000-392072 20001225
DT Utility
FS APPLICATION
LREP SUGHRUE MION, PLLC, 2100 PENNSYLVANIA AVENUE, N.W., WASHINGTON, DC, 20037
CLMN Number of Claims: 63
ECL Exemplary Claim: 1
DRWN 14 Drawing Page(s)
LN.CNT 8318
AB A scanner includes three laser stimulating ray sources each adapted for emitting a laser beam, a sample stage on which a sample carrier for carrying five samples is to be placed, a scanning mechanism for **moving** the sample stage in a main scanning direction and in a sub-scanning direction, a confocal optical system, a motor for an objective lens incorporated in the confocal optical system, a light detector for **photoelectrically** detecting light, a non-volatile memory, and a controller, the non-volatile memory being constituted so as to store position data produced by setting five distance measuring devices in the sample, placing the sample carrier on the sample stage, and measuring a distance between the objective lens and a reference position on a surface of one of the distance measuring devices set in the sample carrier and a distance between the objective lens and measurement positions on the surface of the one of the distance measuring devices different from the reference position, and to store focus position data produced by setting a focus position determination device including a luminescent material having a property to release fluorescence emission or photoluminescence emission upon being irradiated with the laser beam in the sample carrier so that the luminescent material is located at the reference position, scanning the focus position determination device with the laser beam to stimulate the luminescent material located at the reference position, **photoelectrically** detecting fluorescence emission or photoluminescence emission released from the luminescent material by the light detector, changing the position of the objective lens of the confocal optical system with a predetermined pitch, and determining a focus position of the confocal optical system, the controller being constituted so as to correct the focus position data of the confocal optical system stored in the non-volatile memory with the position data stored in the non-volatile memory, and output a drive signal to the motor based on the thus corrected focus position data of the confocal optical system, thereby causing it to move the objective and adjust the position thereof. According to the thus constituted scanner, it is possible to adjust the focus of a confocal optical system with high accuracy without need for special devices and produce **digital** data for **biochemical** analysis in a desired manner.

L10 ANSWER 21 OF 27 USPATFULL on STN
AN 2002:186585 USPATFULL
TI Scanner and method for setting voltage value of photomultiplier
IN Matsushita, Masahiro, Kanagawa, JAPAN
Shioe, Yoshifumi, Kanagawa, JAPAN
PA FUJI PHOTO FILM CO., LTD. (non-U.S. corporation)
PI US 2002099511 A1 20020725
AI US 2001-13505 A1 20011213 (10)
PRAI JP 2000-393162 20001225
DT Utility
FS APPLICATION
LREP SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC, 2100 Pennsylvania Avenue,

N.W., Washington, DC, 20037-3202
CLMN Number of Claims: 21
ECL Exemplary Claim: 1
DRWN 8 Drawing Page(s)
LN.CNT 2918
AB A scanner includes a **plurality** of laser stimulating ray sources each adapted for emitting a laser beam, a sample stage on which a sample containing a labeling substance is to be placed, a scanning mechanism for **moving** the sample stage so that the sample placed on the sample stage can be scanned with the laser beam, a photomultiplier for **photoelectrically** detecting light released from the labeling substance contained in the sample upon being scanned with the laser beam and producing analog image data, and an A/D converter for converting the analog image data to **digital** image data, the scanner further including a pixel density signal intensity simulating section for effecting simulation based on pre-scan **digital** image data produced by setting a voltage value of the photomultiplier to a given photomultiplier voltage value G0, scanning the sample with the laser beam, thereby effecting pre-scanning, and **photoelectrically** detecting light released from the labeling substance in the sample as a result of the pre-scanning by the photomultiplier, which simulation uses the pre-scan **digital** image data produced when the voltage value of the photomultiplier is set to G0 to simulate density signal intensity of each pixel of **digital** image data that would be produced by setting the photomultiplier to a voltage value G different from the voltage value G0, scanning the sample placed on the sample stage with the laser beam, **photoelectrically** detecting light released from the labeling substance in the sample by the photomultiplier whose voltage value is set to G to produce analog image data, and digitizing the analog image data by the A/D converter. According to the thus constituted scanner, it is possible to determine the voltage value of the photomultiplier simply and rapidly without causing on the degradation of a sample.

L10 ANSWER 22 OF 27 USPATFULL on STN
AN 2002:156421 USPATFULL
TI Image analyzing method and apparatus
IN Hakamata, Masashi, Kanagawa, JAPAN
PA Fuji Photo Film Co., LTD. (non-U.S. corporation)
PI US 2002081012 A1 20020627
AI US 2001-4873 A1 20011207 (10)
PRAI JP 2000-379213 20001213
DT Utility
FS APPLICATION
LREP SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC, 2100 Pennsylvania Avenue, N.W., Washington, DC, 20037-3202
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN 8 Drawing Page(s)
LN.CNT 2850
AB An image analyzing apparatus includes a **plurality** of stimulating ray sources, a light detector and an image reading apparatus for producing image data by **photoelectrically** detecting fluorescence emission by the light detector, the image analyzing apparatus further including a template producing section for producing a template based on template data produced by **photoelectrically** detecting by the light detector of the image reading apparatus a **plurality** of spots of a specific binding substance formed on a substrate by spot-like dropping the specific binding substance and defining regions of interest to be quantified based on the template, and a quantitative analyzer for defining regions of interest to be quantified in the image data based on the template produced by the template producing section and effecting quantitative analysis.

According to thus constituted image analyzing apparatus, it is possible to define a region of interest to be quantitatively analyzed in a desired manner and accurately effect quantitative analysis.

L10 ANSWER 23 OF 27 USPATFULL on STN
AN 2002:155836 USPATFULL
TI **Digital** data producing system
IN Matsushita, Masahiro, Kanagawa, JAPAN
Suzuki, Takumi, Kanagawa, JAPAN
PA Fuji Photo Film Co., Ltd. (non-U.S. corporation)
PI US 2002080424 A1 20020627
AI US 2001-13658 A1 20011213 (10)
PRAI JP 2000-393141 20001225
DT Utility
FS APPLICATION
LREP SUGHRUE, MION, ZINN,, MACPEAK & SEAS, PLLC, 2100 Pennsylvania Avenue, N.W., Washington, DC, 20037-3202
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN 6 Drawing Page(s)
LN.CNT 3413
AB A **digital** data producing system includes a keyboard, a mouse, a data saving memory for saving sets of produced **digital** data, an additional character string memory for storing at least two sets of additional character strings, and a data file name assigning section for assigning to the sets of produced **digital** data a data file names produced by selecting one set of additional character strings from among the at least two sets of additional character strings stored in the additional character string memory in accordance with instructions input using the mouse when a naming rule is selected and serially adding members of the thus selected set of additional character strings to a basic data file name. According to the thus constituted **digital** data producing system, it is possible to simply assign to sets of **digital** data correlated with each other file names composed of, for example, a common character string plus additional character strings to clarify the correlation between (among) the sets of **digital** data.

L10 ANSWER 24 OF 27 USPATFULL on STN
AN 2002:132032 USPATFULL
TI Image reading method and apparatus
IN Ogura, Nobuhiko, Kanagawa, JAPAN
PA FUJI PHOTO FILM CO., LTD. (non-U.S. corporation)
PI US 2002066866 A1 20020606
AI US 2001-996672 A1 20011130 (9)
PRAI JP 2000-368112 20001204
DT Utility
FS APPLICATION
LREP SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC, 2100 Pennsylvania Avenue, N.W., Washington, DC, 20037-3202
CLMN Number of Claims: 41
ECL Exemplary Claim: 1
DRWN 11 Drawing Page(s)
LN.CNT 2249
AB An image reading apparatus is adapted for irradiating an image carrier including a labeling substance contained in two-dimensionally distributed spots with a stimulating ray and **photoelectrically** detecting light released from the labeling substance, thereby producing image data, and the image reading apparatus includes at least one stimulating ray source for emitting a stimulating ray, a lens for shaping the stimulating ray emitted from the at least one stimulating ray source into a line beam, a sensor for **photoelectrically**

detecting light released from the labeling substance, and a controller for performing a stimulation and detection step of irradiating the image carrier including the labeling substance contained in the two-dimensionally distributed spots with the line beam of the stimulating ray to stimulate the labeling substance, stopping irradiation with the line beam of the stimulating ray and causing the sensor to **photoelectrically** detect light released from the labeling substance after the completion of irradiation with the line beam of the stimulating ray. According to the thus constituted image reading apparatus, it is possible to produce low noise image data rapidly and with a simple operation by irradiating an image carrier including two-dimensionally distributed spots of a labeling substance such as a fluorescent substance, a radioactive labeling substance or the like with a stimulating ray to excite the labeling substance and **photoelectrically** detecting light released from the labeling substance.

L10 ANSWER 25 OF 27 USPATFULL on STN
AN 2002:119551 USPATFULL
TI **Biochemical** analysis unit and **biochemical** analyzing method using the same
IN Ogura, Nobuhiko, Kanagawa, JAPAN
PA FUJI PHOTO FILMS CO., LTD. (non-U.S. corporation)
PI US 2002061534 A1 20020523
AI US 2001-21050 A1 20011219 (10)
RLI Division of Ser. No. US 2001-918500, filed on 1 Aug 2001, PENDING
PRAI JP 2000-234776 20000802
JP 2001-100942 20010330
JP 2001-199183 20010629
DT Utility
FS APPLICATION
LREP SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC, 2100 Pennsylvania Avenue, N.W., Washington, DC, 20037-3202
CLMN Number of Claims: 76
ECL Exemplary Claim: 1
DRWN 20 Drawing Page(s)
LN.CNT 4689
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A **biochemical** analysis unit includes a substrate made of a material capable of attenuating **radiation** energy and/or light energy and formed with a **plurality** of holes, and a **plurality** of absorptive regions formed by forming an absorptive region in every hole. According to the thus constituted **biochemical** analysis unit, even in the case where the absorptive regions are formed at a high density, when a stimulable phosphor **layer** formed on a stimulable **phosphor sheet** is exposed to a radioactive labeling substance contained in the **plurality** of absorptive regions, electron beams (β rays) released from the radioactive labeling substance contained in the individual absorptive regions are reliably prevented from being scattered in the substrate and advancing to regions of the stimulable phosphor **layer** that should be exposed to electron beams released from absorptive regions formed in neighboring holes. Therefore, it is possible to efficiently prevent noise caused by the scattering of electron beams released from the radioactive labeling substance from being generated in **biochemical** analysis data produced by irradiating the stimulable phosphor **layer** exposed to the radioactive labeling substance with a stimulating ray and **photoelectrically** detecting **stimulated emission** released from the stimulable phosphor **layer** and to produce **biochemical** analysis data having a high quantitative accuracy.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 26 OF 27 USPATFULL on STN
AN 2002:48330 USPATFULL
TI **Biochemical** analyzing method, **biochemical** analysis apparatus, **biochemical** analysis unit used therefor and target detecting apparatus for detecting target from **biochemical** analysis unit
IN Ogura, Nobuhiko, Kanagawa, JAPAN
PA FUJI PHOTO FILM CO.,LTD. (non-U.S. corporation)
PI US 2002028521 A1 20020307
AI US 2001-944175 A1 20010904 (9)
PRAI JP 2000-267449 20000904
DT Utility
FS APPLICATION
LREP SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC, 2100 Pennsylvania Avenue, N.W., Washington, DC, 20037-3202
CLMN Number of Claims: 41
ECL Exemplary Claim: 1
DRWN 8 Drawing Page(s)
LN.CNT 1776
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A **biochemical** analyzing method includes the steps of fixing probes selected in advance on a substrate, binding a target with the probes using hybridization to capture the target, fractionating the captured target, detecting the fractionated target, and quantitatively analyzing the detected target. According to this **biochemical** analyzing method, it is possible to reliably separate substances derived from a living organism other than the target, detect only the target and accurately perform a quantitative analysis in the case of fixing probes on a substrate, binding a target which is a substance derived from a living organism with the probes fixed on the substrate utilizing hybridization or antigen-antibody reaction, detecting the target and performing quantitative analysis, even when substances derived from a living organism other than the target are bound with the probes due to similarity in structure in addition to the target or instead of the target.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 27 OF 27 USPATFULL on STN
AN 2002:27162 USPATFULL
TI **Biochemical** analysis unit and **biochemical** analyzing method using the same
IN Ogura, Nobuhiko, Kanagawa, JAPAN
PA FUJI PHOTO FILM CO., LTD. (non-U.S. corporation)
PI US 2002016009 A1 20020207
AI US 2001-918500 A1 20010801 (9)
PRAI JP 2000-234776 20000802
JP 2001-100942 20010330
JP 2001-199183 20010629
DT Utility
FS APPLICATION
LREP SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC, 2100 Pennsylvania Avenue, N.W., Washington, DC, 20037-3202
CLMN Number of Claims: 76
ECL Exemplary Claim: 1
DRWN 20 Drawing Page(s)
LN.CNT 4693
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A **biochemical** analysis unit includes a substrate made of a material capable of attenuating **radiation** energy and/or light energy and formed with a **plurality** of holes, and a **plurality** of absorptive regions formed by forming an absorptive

region in every hole. According to the thus constituted **biochemical** analysis unit, even in the case where the absorptive regions are formed at a high density, when a stimulable phosphor **layer** formed on a stimulable **phosphor sheet** is exposed to a radioactive labeling substance contained in the **plurality** of absorptive regions, electron beams (β rays) released from the radioactive labeling substance contained in the individual absorptive regions are reliably prevented from being scattered in the substrate and advancing to regions of the stimulable phosphor **layer** that should be exposed to electron beams released from absorptive regions formed in neighboring holes. Therefore, it is possible to efficiently prevent noise caused by the scattering of electron beams released from the radioactive labeling substance from being generated in **biochemical** analysis data produced by irradiating the stimulable phosphor **layer** exposed to the radioactive labeling substance with a stimulating ray and **photoelectrically** detecting **stimulated emission** released from the stimulable phosphor **layer** and to produce **biochemical** analysis data having a high quantitative accuracy.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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